

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=5; day=4; hr=20; min=35; sec=37; ms=101;]

=====

Application No: 10540843 Version No: 2.0

Input Set:**Output Set:**

Started: 2009-04-27 18:07:13.407
Finished: 2009-04-27 18:07:16.405
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 998 ms
Total Warnings: 92
Total Errors: 0
No. of SeqIDs Defined: 100
Actual SeqID Count: 100

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28)

Input Set:

Output Set:

Started: 2009-04-27 18:07:13.407
Finished: 2009-04-27 18:07:16.405
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 998 ms
Total Warnings: 92
Total Errors: 0
No. of SeqIDs Defined: 100
Actual SeqID Count: 100

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (29)
W 213	Artificial or Unknown found in <213> in SEQ ID (30)
W 213	Artificial or Unknown found in <213> in SEQ ID (31)
W 213	Artificial or Unknown found in <213> in SEQ ID (32)
W 213	Artificial or Unknown found in <213> in SEQ ID (33)
W 213	Artificial or Unknown found in <213> in SEQ ID (34)
W 213	Artificial or Unknown found in <213> in SEQ ID (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (36)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Mariscal-Gonzalez, Lorenza
Nava-Dominguez, Porfiro

<120> EMPLOYMENT OF ROTAVIRUS PROTEINS,
DERIVED PROTEINS AND PEPTIDES FOR THE MODULATION OF TISSUE
PERMEABILITY

<130> UHT1.001APC

<140> 10540843

<141> 2006-05-18

<150> PCT/IB03/00280

<151> 2003-01-10

<160> 100

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 776

<212> PRT

<213> Rhesus Monkey Rotavirus

<400> 1

Met	Ala	Ser	Leu	Ile	Tyr	Arg	Gln	Leu	Leu	Thr	Asn	Ser	Tyr	Thr	Val
1				5					10					15	
Asp	Leu	Ser	Asp	Glu	Ile	Gln	Glu	Ile	Gly	Ser	Thr	Lys	Thr	Gln	Asn
			20				25					30			
Val	Thr	Ile	Asn	Leu	Gly	Pro	Phe	Ala	Gln	Thr	Gly	Tyr	Ala	Pro	Val
		35				40					45				
Asn	Trp	Gly	Pro	Gly	Glu	Thr	Asn	Asp	Ser	Thr	Thr	Val	Glu	Pro	Val
		50				55					60				
Leu	Asp	Gly	Pro	Tyr	Gln	Pro	Thr	Ser	Phe	Asn	Pro	Pro	Val	Asp	Tyr
65				70					75					80	
Trp	Met	Leu	Leu	Ala	Pro	Thr	Ala	Ala	Gly	Val	Val	Val	Glu	Gly	Thr
			85					90					95		
Asn	Asn	Thr	Asp	Arg	Trp	Leu	Ala	Thr	Ile	Leu	Val	Glu	Pro	Asn	Val
		100					105					110			
Thr	Ser	Glu	Thr	Arg	Ser	Tyr	Thr	Leu	Phe	Gly	Thr	Gln	Glu	Gln	Ile
		115					120					125			
Thr	Ile	Ala	Tyr	Ala	Ser	Gln	Thr	Gln	Trp	Lys	Phe	Ile	Asp	Val	Val
		130				135					140				
Lys	Thr	Thr	Gln	Asn	Gly	Ser	Tyr	Ser	Gln	Tyr	Gly	Pro	Leu	Gln	Ser
145				150					155					160	
Thr	Pro	Lys	Leu	Tyr	Ala	Val	Met	Lys	His	Asn	Gly	Lys	Ile	Tyr	Thr
			165					170					175		
Tyr	Asn	Gly	Glu	Thr	Pro	Asn	Val	Thr	Thr	Lys	Tyr	Tyr	Ser	Thr	Thr
		180					185						190		
Asn	Tyr	Asp	Ser	Val	Asn	Met	Thr	Ala	Phe	Cys	Asp	Phe	Tyr	Ile	Ile
		195				200						205			
Pro	Arg	Glu	Glu	Glu	Ser	Thr	Cys	Thr	Glu	Tyr	Ile	Asn	Asn	Gly	Leu
		210				215						220			

Pro	Pro	Ile	Gln	Asn	Thr	Arg	Asn	Ile	Val	Pro	Leu	Ala	Leu	Ser	Ala	225	230	235	240
Arg	Asn	Ile	Ile	Ser	His	Arg	Ala	Gln	Ala	Asn	Glu	Asp	Ile	Val	Val	245	250	255	
Ser	Lys	Thr	Ser	Leu	Trp	Lys	Glu	Met	Gln	Tyr	Asn	Arg	Asp	Ile	Thr	260	265	270	
Ile	Arg	Phe	Lys	Phe	Ala	Ser	Ser	Ile	Val	Lys	Ser	Gly	Gly	Leu	Gly	275	280	285	
Tyr	Lys	Trp	Ser	Glu	Ile	Ser	Phe	Lys	Pro	Ala	Asn	Tyr	Gln	Tyr	Thr	290	295	300	
Tyr	Thr	Arg	Asp	Gly	Glu	Asp	Val	Thr	Ala	His	Thr	Thr	Cys	Ser	Val	305	310	315	320
Asn	Gly	Met	Asn	Asp	Phe	Asn	Phe	Asn	Gly	Gly	Ser	Leu	Pro	Thr	Asp	325	330	335	
Phe	Ile	Ile	Ser	Arg	Tyr	Glu	Val	Ile	Lys	Glu	Asn	Ser	Tyr	Val	Tyr	340	345	350	
Val	Asp	Tyr	Trp	Asp	Asp	Ser	Gln	Ala	Phe	Arg	Asn	Met	Val	Tyr	Val	355	360	365	
Arg	Ser	Leu	Ala	Ala	Asn	Leu	Asn	Ser	Val	Ile	Cys	Thr	Gly	Gly	Asp	370	375	380	
Tyr	Ser	Phe	Ala	Leu	Pro	Val	Gly	Gln	Trp	Pro	Val	Met	Thr	Gly	Gly	385	390	395	400
Ala	Val	Ser	Leu	His	Ser	Ala	Gly	Val	Thr	Leu	Ser	Thr	Gln	Phe	Thr	405	410	415	
Asp	Phe	Val	Ser	Phe	Asn	Ser	Leu	Arg	Phe	Arg	Phe	Arg	Leu	Thr	Val	420	425	430	
Glu	Glu	Pro	Ser	Phe	Ser	Ile	Thr	Arg	Thr	Arg	Val	Gly	Gly	Leu	Tyr	435	440	445	
Gly	Leu	Pro	Ala	Ala	Tyr	Pro	Asn	Asn	Gly	Lys	Glu	Tyr	Tyr	Glu	Val	450	455	460	
Ala	Gly	Arg	Leu	Ser	Leu	Ile	Ser	Leu	Val	Pro	Ser	Asn	Asp	Asp	Tyr	465	470	475	480
Gln	Thr	Pro	Ile	Thr	Asn	Ser	Val	Thr	Val	Arg	Gln	Asp	Leu	Glu	Arg	485	490	495	
Gln	Leu	Gly	Glu	Leu	Arg	Glu	Glu	Phe	Asn	Ala	Leu	Ser	Gln	Glu	Ile	500	505	510	
Ala	Met	Ser	Gln	Leu	Ile	Tyr	Leu	Ala	Leu	Leu	Pro	Leu	Asp	Met	Phe	515	520	525	
Ser	Met	Phe	Ser	Gly	Ile	Lys	Ser	Thr	Ile	Asp	Ala	Ala	Lys	Ser	Met	530	535	540	
Ala	Thr	Ser	Val	Met	Lys	Lys	Phe	Lys	Lys	Ser	Gly	Leu	Ala	Asn	Ser	545	550	555	560
Val	Ser	Thr	Leu	Thr	Asp	Ser	Leu	Ser	Asp	Ala	Ala	Ser	Ser	Ile	Ser	565	570	575	
Arg	Gly	Ala	Ser	Ile	Arg	Ser	Val	Gly	Ser	Ser	Ala	Ser	Ala	Trp	Thr	580	585	590	
Asp	Val	Ser	Thr	Gln	Ile	Thr	Asp	Val	Ser	Ser	Ser	Val	Ser	Ser	Ile	595	600	605	
Ser	Thr	Gln	Thr	Ser	Thr	Ile	Ser	Arg	Arg	Leu	Arg	Leu	Lys	Glu	Met	610	615	620	
Ala	Thr	Gln	Thr	Glu	Gly	Met	Asn	Phe	Asp	Asp	Ile	Ser	Ala	Ala	Val	625	630	635	640
Leu	Lys	Thr	Lys	Ile	Asp	Arg	Ser	Thr	Gln	Ile	Ser	Pro	Asn	Thr	Leu	645	650	655	
Pro	Asp	Ile	Val	Thr	Glu	Ala	Ser	Glu	Lys	Phe	Ile	Pro	Asn	Arg	Ala	660	665	670	
Tyr	Arg	Val	Ile	Asn	Asn	Asp	Glu	Val	Phe	Glu	Ala	Gly	Thr	Asp	Gly				

675	680	685
Arg Tyr Phe Ala Tyr Arg Val Glu Thr Phe Asp Glu Ile Pro Phe Asp		
690	695	700
Val Gln Lys Phe Ala Asp Leu Val Thr Asp Ser Pro Val Ile Ser Ala		
705	710	715
Ile Ile Asp Phe Lys Thr Leu Lys Asn Leu Asn Asp Asn Tyr Gly Ile		
725	730	735
Ser Arg Gln Gln Ala Phe Asn Leu Leu Arg Ser Asp Pro Arg Val Leu		
740	745	750
Arg Glu Phe Ile Asn Gln Asp Asn Pro Ile Ile Arg Asn Arg Ile Glu		
755	760	765
Gln Leu Ile Met Gln Cys Arg Leu		
770	775	

<210> 2
 <211> 231
 <212> PRT
 <213> Rhesus Monkey Rotavirus

<400> 2

Met Ala Ser Leu Ile Tyr Arg Gln Leu Leu Thr Asn Ser Tyr Thr Val		
1	5	10
Asp Leu Ser Asp Glu Ile Gln Glu Ile Gly Ser Thr Lys Thr Gln Asn		
20	25	30
Val Thr Ile Asn Leu Gly Pro Phe Ala Gln Thr Gly Tyr Ala Pro Val		
35	40	45
Asn Trp Gly Pro Gly Glu Thr Asn Asp Ser Thr Thr Val Glu Pro Val		
50	55	60
Leu Asp Gly Pro Tyr Gln Pro Thr Ser Phe Asn Pro Pro Val Asp Tyr		
65	70	75
Trp Met Leu Leu Ala Pro Thr Ala Ala Gly Val Val Val Glu Gly Thr		
85	90	95
Asn Asn Thr Asp Arg Trp Leu Ala Thr Ile Leu Val Glu Pro Asn Val		
100	105	110
Thr Ser Glu Thr Arg Ser Tyr Thr Leu Phe Gly Thr Gln Glu Gln Ile		
115	120	125
Thr Ile Ala Tyr Ala Ser Gln Thr Gln Trp Lys Phe Ile Asp Val Val		
130	135	140
Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly Pro Leu Gln Ser		
145	150	155
Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly Lys Ile Tyr Thr		
165	170	175
Tyr Asn Gly Glu Thr Pro Asn Val Thr Thr Lys Tyr Tyr Ser Thr Thr		
180	185	190
Asn Tyr Asp Ser Val Asn Met Thr Ala Phe Cys Asp Phe Tyr Ile Ile		
195	200	205
Pro Arg Glu Glu Glu Ser Thr Cys Thr Glu Tyr Ile Asn Asn Gly Leu		
210	215	220
Pro Pro Ile Gln Asn Thr Arg		
225	230	

<210> 3
 <211> 42
 <212> PRT
 <213> Rhesus Monkey Rotavirus

<400> 3
Ile Asp Val Val Lys Thr Thr Gln Asn Gly Ser Tyr Ser Gln Tyr Gly
1 5 10 15
Pro Leu Gln Ser Thr Pro Lys Leu Tyr Ala Val Met Lys His Asn Gly
20 25 30
Lys Ile Tyr Thr Tyr Asn Gly Glu Thr Pro
35 40

<210> 4
<211> 4
<212> PRT
<213> Rhesus Monkey Rotavirus

<400> 4
Val Val Lys Thr
1

<210> 5
<211> 8
<212> PRT
<213> Rhesus Monkey Rotavirus

<400> 5
Ser Tyr Ser Gln Tyr Gly Pro Leu
1 5

<210> 6
<211> 4
<212> PRT
<213> Rhesus Monkey Rotavirus

<400> 6
Ile Tyr Thr Tyr
1

<210> 7
<211> 4
<212> PRT
<213> Rhesus Monkey Rotavirus

<400> 7
Asn Val Thr Thr
1

<210> 8
<211> 9
<212> PRT
<213> Rhesus Monkey Rotavirus

<400> 8
Gly Ser Tyr Ser Gln Tyr Gly Pro Leu

1 5

<210> 9
<211> 45
<212> PRT
<213> Canis lupus familiaris

<400> 9

Asp Arg Gly Tyr Gly Thr Gly Leu Met Gly Gly Ser Ile Gly Tyr Pro
1 5 10 15

Tyr Gly Ser Gly Phe Gly Ser Tyr Gly Thr Gly Tyr Gly Tyr Gly Phe
20 25 30

Gly Tyr Gly Tyr Gly Tyr Gly Gly Tyr Thr Asp Pro Arg
35 40 45

<210> 10
<211> 44
<212> PRT
<213> Mus musculus

<400> 10

Asp Arg Gly Tyr Gly Thr Gly Leu Phe Gly Gly Ser Leu Asn Tyr Pro
1 5 10 15

Tyr Ser Gly Phe Gly Tyr Gly Gly Gly Tyr Gly Gly Gly Tyr Gly Gly
20 25 30

Tyr Gly Tyr Gly Tyr Gly Gly Tyr Thr Asp Pro Arg
35 40

<210> 11
<211> 46
<212> PRT
<213> Rattus norvegicus

<400> 11

Asp Arg Ala Tyr Gly Thr Gly Ile Phe Gly Gly Ser Met Asn Tyr Pro
1 5 10 15

Tyr Gly Ser Gly Phe Gly Ser Tyr Gly Gly Gly Phe Gly Gly Tyr Gly
20 25 30

Tyr Gly Tyr Gly Tyr Gly Tyr Gly Tyr Thr Asp Pro Arg

35

40

45

<210> 12

<211> 46

<212> PRT

<213> Homo sapiens

<400> 12

Asp Arg Gly Tyr Gly Thr Ser Leu Leu Gly Gly Ser Val Gly Tyr Pro
1 5 10 15

Tyr Gly Gly Ser Gly Phe Gly Ser Tyr Gly Ser Gly Tyr Gly Tyr Gly
20 25 30

Tyr Gly Tyr Gly Tyr Gly Tyr Gly Gly Tyr Thr Asp Pro Arg
35 40 45

<210> 13

<211> 44

<212> PRT

<213> Gallus gallus

<400> 13

Asp Tyr Gly Tyr Gly Leu Gly Gly Ala Tyr Gly Thr Gly Leu Gly Gly
1 5 10 15

Phe Tyr Gly Ser Asn Tyr Tyr Gly Ser Gly Leu Ser Tyr Ser Tyr Gly
20 25 30

Tyr Gly Gly Tyr Tyr Gly Gly Val Asn Gln Arg Thr
35 40

<210> 14

<211> 38

<212> PRT

<213> Dipodomys simulans

<400> 14

Glu Tyr Tyr Gly Ser Gly Gly Leu Leu Gly Tyr Gly Gly Gly Leu Gly
1 5 10 15

Ser Tyr Tyr Asn Gly Tyr Tyr Gly Gly Tyr Asn Gly Tyr Tyr Tyr Gly
20 25 30

Gly Leu Thr Asn Pro Arg

<210> 15

<211> 45

<212> PRT

<213> *Canis lupus familiaris*

<400> 15

Pro Thr Ala Gln Ala Ser Gly Ser Leu Tyr Ser Ser Gln Ile Tyr Ala
 1 5 10 15

Met Cys Asn Gln Phe Tyr Ala Ser Thr Ala Thr Gly Leu Tyr Met Asp
 20 25 30

Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
 35 40 45

<210> 16

<211> 45

<212> PRT

<213> *Mus musculus*

<400> 16

Pro Thr Ala Gln Ala Ser Gly Ser Met Tyr Gly Ser Gln Ile Tyr Met
 1 5 10 15

Ile Cys Asn Gln Phe Tyr Thr Pro Gly Gly Thr Gly Leu Tyr Val Asp
 20 25 30

Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
 35 40 45

<210> 17

<211> 45

<212> PRT

<213> *Rattus norvegicus*

<400> 17

Pro Thr Ala Gln Ala Ser Gly Ser Met Tyr Gly Ser Gln Ile Tyr Thr
 1 5 10 15

Ile Cys Ser Gln Phe Tyr Thr Pro Gly Gly Thr Gly Leu Tyr Val Asp
 20 25 30

Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu

35

40

45

<210> 18

<211> 45

<212> PRT

<213> Homo sapiens

<400> 18

Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln Ile Tyr Ala
1 5 10 15

Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu Tyr Val Asp
20 25 30

Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
35 40 45

<210> 19

<211> 41

<212> PRT

<213> Gallus gallus

<400> 19

Pro Gln Ala Gln Met Ser Ser Gly Tyr Tyr Tyr Ser Pro Leu Leu Ala
1 5 10 15

Met Cys Ser Gln Ala Tyr Gly Ser Thr Tyr Leu Asn Gln Tyr Ile Tyr
20 25 30

His Tyr Cys Thr Val Asp Pro Gln Glu
35 40

<210> 20

<211> 47

<212> PRT

<213> Dipodomys simulans

<400> 20

Pro Arg Ala Gly Leu Gly Ala Ser Ser Gly Ser Leu Tyr Tyr Asn Gln
1 5 10 15

Met Leu Met Leu Cys Asn Gln Met Met Ser Pro Val Ala Gly Gly Ile
20 25 30

Met Asn Gln Tyr Leu Tyr His Tyr Cys Met Val Asp Pro Gln Glu

<210> 21
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 21

Ile Tyr Arg Gln Leu Leu
1 5

<210> 22
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 22

Leu Ser Asp Glu Ile Gln
1 5

<210> 23
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 23

Ser Thr Lys Thr Gln
1 5

<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 24

Pro Phe Ala Gln Thr Gly Tyr
1 5

<210> 25
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 25
Tyr Ala Pro Val Asn
1 5

<210> 26
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 26

Leu Asp Gly Pro Tyr Gln
1 5

<210> 27
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 27

Tyr Gln Pro Thr
1

<210> 28
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 28

Phe Asn Pro Pro Val
1 5

<210> 29
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 29

Trp Met Leu Leu Ala
1 5

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 30

Ala Gly Val Val Val Glu Gly
1 5

<210> 31
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 31

Thr Ser Glu Thr Arg Ser Tyr Thr Leu Phe Gly
1 5 10

<210> 32
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 32

Thr Arg Ser Tyr Thr Leu
1 5

<210> 33

<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 33

Ser Gln Thr Gln Trp Lys
1 5

<210> 34
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 34

Val Val Lys Thr Thr
1 5

<210> 35
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 35

Tyr Ser Gln Tyr
1

<210> 36
<211> 4
<212> PRT
<213> Artificial Sequence

<2